

MAIL STOP PCT
Preliminary Amendment
Attorney docket 26235

- 1 -

ATTACHMENT A

CLAIMS:

1-77 (canceled)

78. (new) A method for changing the temperature of a sample from an initial temperature via an intermediate temperature to a final temperature, one of the initial and final temperatures being above the freezing point of said sample and the other being below the freezing point, the minimal dimension of the sample in each of two mutually perpendicular cross-sections exceeding 0.5 centimeters, and at least one of the cross-sections having an outer zone and an inner zone, the method comprising:

- (i) changing the temperature of the sample until the temperature of the sample in at least one part of the outer zone equals the intermediate temperature whilst the temperature of the sample in the inner zone or in another part of the outer zone, spaced from said one part, is different from said intermediate temperature;
- (ii) further changing the temperature of said sample by subjecting it to the intermediate temperature until the temperature of said sample in at least one cross-section is uniform and equals the intermediate temperature; and
- (iii) changing the temperature of said sample until the majority of said sample is at the final temperature.

79. new) A method for preservation of semen comprising collecting a whole ejaculate of semen from a single donor and freezing said whole ejaculate as a single sample.

80. (new) The method according to Claim 79, wherein the whole ejaculate is the sperm rich fraction.

81. (new) A method for double-freezing preservation of semen comprising:

- (A) freezing the semen in one or more aliquots;
- (B) thawing at least one aliquot;
- (C) dividing said thawed aliquot to smaller aliquots; and

(D) freezing at least one of said smaller aliquots.

82. (new) The method according to Claim 81, wherein step (C) comprises diluting of the thawed aliquot with an extender before dividing it to smaller aliquots.
83. (new) The method according to Claim 81, wherein the one or more aliquots of step (A) each comprise more than one insemination quota.
84. (new) The method according to Claim 81, wherein the one or more aliquots of step (A) each comprise a whole ejaculate of a single male.
85. (new) The method according to Claim 81, wherein the smaller aliquots are each equal to an insemination quota.
86. (new) The method according to Claim 81, wherein the semen comprises sperm and extra-cellular fluid, and wherein step (B) is terminated when the sample reaches a temperature wherein the extra-cellular fluid is thawed while the sperm is chilled.
87. (new) The method according to Claim 86, wherein the termination of step (B) comprises transferring the sample to a solution with said temperature.
88. (new) The method according to Claim 86, wherein said temperature is 5°C.
89. (new) The method according to Claim 81, wherein in step (C) the sperm is divided into aliquots in accordance with a trait of the semen.
90. (new) The method according to Claim 89, wherein said trait is the sex chromosome of the sperm.
91. (new) A method for preservation of semen comprising:
 (I) adding an extender to a raw semen sample; and
 (II) freezing said sample.
92. (new) A method for preservation of semen comprising collecting semen from more than one donor and freezing it as a mixture.
93. (new) The method according to Claim 92, wherein the semen comprises two or more insemination quotas.
94. (new) A method for double-freezing preservation of semen comprising:

- (A) freezing a whole ejaculate of a single male in one aliquot;
- (B) thawing at least one aliquot;
- (C) diluting said at least one aliquot with an extender and dividing it to smaller aliquots each equal to an insemination quota; and
- (D) freezing at least one of said smaller aliquots.

95. (new) The method according to Claim 94, wherein the semen comprises sperm and extra-cellular fluid, and wherein step (B) is terminated when the sample reaches a temperature wherein the extra-cellular fluid is thawed while the sperm is chilled.

96. (new) The method according to Claim 95, wherein the termination of step (B) comprises transferring the sample to a solution with said temperature

97. (new) The method according to Claim 95, wherein said temperature is 5°C.